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1 [A progressive multi-layer resource reconfiguration framework for time-shared grid systems](#)

[Fu-Chang Chen](#), [Jyh-Bao Chang](#), [Yung-Yau Wang](#), [Ge-Kuan Shieh](#)

June 2009

Future Generation Computer Systems, Volume 25 Issue 6

Publisher: Elsevier Science Publishers B. V.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Grid resources are non-dedicated, and thus grid users are forced to compete with resource owners for idle CPU cycles. As a result, the turnaround times of both the grid jobs and the owners' jobs are invariably delayed. To resolve this problem, the current ...

Keywords: CPU cycle stealing, Distributed shared memory, Non-dedicated resources, Resource reconfiguration Teamster-G, Time-shared grid resources

2 [The PRIMA System for Privilege Management, Authorization and Enforcement in Grid Environments](#)

[M. Loch](#), [D. B. Adams](#), [D. Kahua](#), [M. S. B. Konani](#), [A. Bahi](#), [S. Shah](#)

November 2003

GRID '03: Proceedings of the 4th International Workshop on Grid Computing

Publisher: IEEE Computer Society

Full text available: [PDF](#) (149.42 KB)

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Many grid usage scenarios depend on small, dynamic working groups for which the ability to establish transient collaboration with little or no intervention from resource administrators is a key requirement. The system developed, PRIMA, focuses on the issues ...

3 [Characterization of Bandwidth-Aware Meta-Schedulers for Co-Allocating Jobs Across Multiple Clusters](#)

[Nikam, M. Junes](#), [Walter B. Ligon, III](#), [Louis W. Kang](#), [Dan Stanzione](#)

November 2005

The Journal of Supercomputing, Volume 14 Issue 2

Publisher: Kluwer Academic Publishers

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

In this paper, we present a bandwidth-centric job communication model that captures the interaction and impacts of simultaneously co-allocating jobs across multiple clusters. We compare our dynamic model with previous research that utilizes a fixed execution ...

Keywords: bandwidth-aware, job co-allocation, multi-site scheduling, multiple clusters, network contention, parallel job scheduling, simulation

4 [Revisiting IP multicast](#)

[Sylvia Patnagamy](#), [Andray Ermolinskiy](#), [Scott Shankar](#)

August 2006

SI GCOMM '06: Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications

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Keywords: multicas, routing

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